

alexwormuth

contact

alexwormuth.com
awormuth@usc.edu
951-312-6543

languages

★ Golang
★ JavaScript
Python
MySQL
HTML/CSS

tools

AWS
Git
Linux
jQuery
d3.js
three.js

interests

♪ Piano
Chess
Go
Overwatch
Soccer
Hiking
Climbing
Travel

education

2011–2015 **B.S. Computer Science**
University of Southern California
GPA - 3.3

In addition to general computer science courses, I have explored areas such as computer graphics, cyber security, and robotics.

experience

2015–2017 **QOLTY (qolty.com)**

Los Angeles, California
Founder, CTO

Led a team to develop a mobile-first data management platform for clinical research.

- Generated \$60k in total revenue
- Built a microservice architecture in Go for various QOLTY modules
- Secured clients at USC, UCLA, CHLA, and Northwestern

2013–2017 **NASA Jet Propulsion Laboratory**

Pasadena, California
Year-Round Intern

Built web and VR applications to visualize planetary and earth science data in ways that allowed scientists to gain insight from large data sets.

- Used d3 and three.js to build modular data visualization widgets
- Developed a 3D Mars terrain pointcloud that can handle over 14M points
- Integrated the Oculus Rift so scientists can 'walk' on Mars

Trained models to classify Cassini imagery.

- Trained 18 models to classify rings, planets, starfields, and more
- Classified over 300,000 images to improve search capabilities
- Applied similar techniques to earth science imagery

2015 **Google**

Mountain View, California
Software Engineering Intern

Collaborated with machine learning experts to train models to predict CPU, RAM, and DISK utilization across Google's entire machine fleet.

- Predicted utilization 1-month into the future with 97% accuracy
- Developed a pipeline for teams to build, test, and deploy new models
- Deployed a Go library allowing systems to generate predictions

professional development

2017 **Roaming Techie (roamingtechie.com)**

Tech, Solo Travel & Lifestyle Blog

Lived abroad for 3 months to experience a digital nomad lifestyle. Built a WordPress blog to improve writing skills and share travel tips.

2016 **Teacher - Introduction to Web Development**

Pasadena City College

Taught a free, unpaid intro to web development course. High school students were able to build and present HTML websites by the end of the course.

- 2014 **LavaLab**
University of Southern California
Accepted into an exclusive entrepreneurship club that conducted private meetings with industry professionals, including Elon Musk.
- 2012 **Microsoft Mentorship Program**
University of Southern California
Selected among 100 students to participate in weekly meetings with a mentor to enhance personal and professional skills.

honors and awards

- 2016 **New Venture Seed Competition Finalist**
Lloyd Greif Center for Entrepreneurial Studies
Received \$7,500 for finishing 3rd out of 200+ ventures participating in the USC New Venture Seed Competition.
- 2015 **1st Place - EO GSEA Regional Competition**
Entrepreneurs Organization Global Student Entrepreneur Awards (Regionals)
Won 1st place in Entrepreneurs Organization's Global Student Entrepreneur Awards pitch competition in Los Angeles pitching QOLTY. By winning, we were selected to pitch at the National Competition in Miami, Florida with 25 of the top student entrepreneurs from the US.